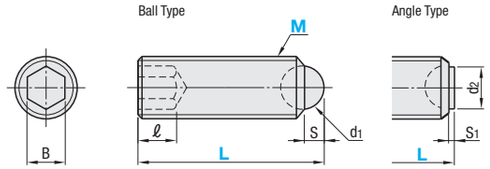
Clamping Screws
Ball / Angle

Type		Main Body			Ball	
Ball Type	Angle Type	M Material	H Hardness	S Surface Treatment	M Material	H Hardness
RSM	FSM	4137 Alloy Steel	38~43HRC	Black Oxide	52100 Bearing Steel	55~60HRC
RSU	FSU	302HQ Stainless Steel	-	-	440C Stainless Steel	55HRC~
RSUC	-				Alumina	1100HV



■Ball Type

Part Number Type	M	L	d1	B	ℓ	S	Allowable Load (kN)	Mass (g)	Unit Price RSM	Unit Price RSU
RSM RSU	3	5.2 10.2	1.5	1.5	1.2	0.5	0.5	0.2~0.4		
	4	6.5 10.5 16.5	2.5	2	2	0.8	1.3	0.4~1		
	5	8.6 12.6 20.6	3	2.5		1	1.4	0.8~2.3		
	6	10.8 16.8 20.8 25.8	4	3	3.5	1.3	3.3	1.5~4		
	8	*11.2 13.2 21.2 26.2 31.2	5.6	4	5 (2.5)	1.8	3.9	2.5~9		
	10	*13.7 17.7 21.7 26.7 36.7	7.1	5	6 (3.5)	2.3	3.4	5~16		
	12	*18 22 32 42	8.7	6	8 (3)	2.8	4.8	10~28		
	16	*23.3 38.3 53.3	11.9	8	10 (3)	4.3	8.9	22~48		

ℓ dimension for *marked L dimension is in ( ).

Part Number Type	M	L	d1	B	ℓ	S	Allowable Load (kN)	Mass (g)	Unit Price
RSUC	4	6.5 10.5 16.5	2.5	2	2	0.8	1.3	0.4~1	
	5	8.6 12.6 20.6	3	2.5		1	1.4	0.8~2.3	
	6	10.8 16.8 25.8	4	3	3.5	1.3	3.3	1.5~4	
	8	13.2 21.2 31.2	5.5	4	5	1.8	3.9	2.5~9	
	10	17.7 26.7	7	5	6	2.3	3.4	5~16	
	12	22 42	8.5	6	8	2.8	4.8	10~28	

■Angle Type

Part Number Type	M	L	d2	B	ℓ	S1	Allowable Load (kN)	Mass (g)	Unit Price FSM	Unit Price FSU
FSM FSU	4	6 10 16	2	2	2	0.3	1.3	0.4~1		
	5	8 12 20	2.5	2.5		0.4	1.4	0.8~2.3		
	6	10 16 20 25	3.2	3	3.5	0.6	3.3	1.5~4		
	8	*10 12 20 25 30	4.5	4	5 (2.5)	0.8	3.9	2.5~9		
	10	*12 16 20 25 35	6	5	6 (3.5)	0.8	3.4	5~16		
	12	*16 20 30 40	7.2	6	8 (3)	1	4.8	10~28		
FSM	16	*20 25 35 50	10.7	8	10 (3)	1.3	8.9	22~48		-

ℓ dimension for *marked L dimension is in ( ).

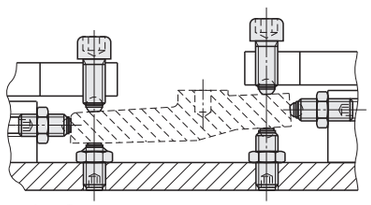
kgf=Nx0.101972

Ordering Example: Part Number RSM4 - L 10.5

Days to Ship: Configure Online

Price: Configure Online

Example



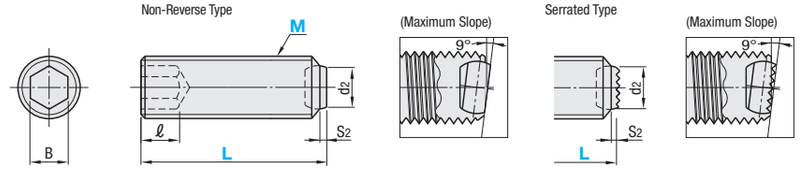
■Notes on Clamping Screws

This product is used not to rotate face balls but to clamp works. (The face balls may or may not rotate when tightening the clamping screw.
For Angle Type, the face ball is free to rotate 360° in all directions. Because of this, the flat portion may rotate inside of the clamp screw. If this needs to be avoided, use the Non-reverse Type.

Clamping Screws / High Locked Screws
Non-Reverse / Serrated

■Clamping Screws

Type		Main Body		Ball	
Non-Reverse Type	Serrated	M Material	S Surface Treatment	M Material	H Hardness
FSMB	FSMG	4137 Alloy Steel	Black Oxide	52100 Bearing Steel	55~60HRC
FSUB	FSUG	302HQ Stainless Steel	-	440C Stainless Steel	55~60HRC



Part Number Type	M	L	d2	B	ℓ	S2	Allowable Load (kN)	Mass (g)	Unit Price FSMB	Unit Price FSUB	Unit Price FSMG	Unit Price FSUG
FSMB FSUB FSMG FSUG	6	10 16 20 25	3.2	3	3.5	0.45	3.3	1.5~4				
	8	*10 12 20 25 30	4.5	4	5 (2.5)	0.5	3.9	2.5~9				
	10	*12 16 20 25 35	6	5	6 (3.5)	0.6	3.4	5~16				
	12	*16 20 30 40	7.2	6	8 (3)	0.75	4.8	10~28				
	16	*20 25 35 50	10.7	8	10 (3)	1	8.9	22.5~48				

ℓ dimension for *marked L dimension is in ( ).

kgf=Nx0.101972

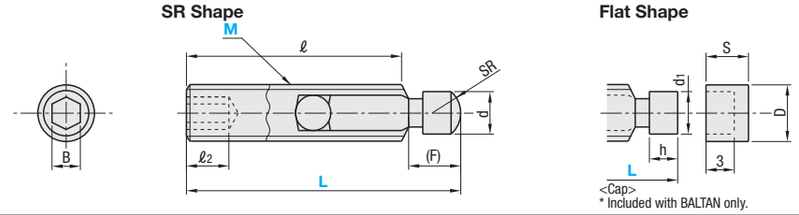
Ordering Example: Part Number FSMB6 - L 16

Days to Ship: Configure Online

Price: Configure Online

■High Locked Screws

Type	Tip Shape	Main Body M Material	Main Body S Surface Treatment	Ball M Material	Ball H Hardness	Head M Material	Head H Hardness	A Cap
BALTAR	SR	1045 Carbon Steel	Black Oxide	440C Stainless Steel	58~63HRC	440C Stainless Steel	55~60HRC	-
SALTAR		304 Stainless Steel	-					
BALTAN	Flat							Polyacetal (White)



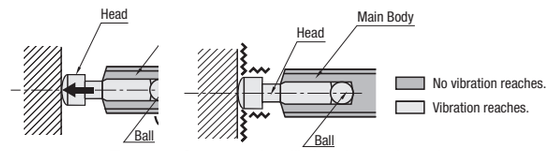
Part Number Type	M	L	B	d	SR	d1	(F)	h	ℓ	ℓ2	Cap (1pc.) D	Cap (1pc.) S	Unit Price BALTAR	Unit Price SALTAR	Unit Price BALTAN
BALTAR SALTAR BALTAN	6	20	3	4	4	-	4	-	12.8	2.5	-	-	-		-
		30				4		3	22.8	3.5	4.7	6			
		50		-	-		-		42.8				-	-	
	8	25	4	5.5	5.5	-	5	-	16.5	3.5	-	-			-
		40				5.5		4	31.5	5	6.5	8			
		60		-	-		-		51.5				-	-	
	10	30	5	7	7	-	6	-	20.4	4.5	-	-			-
		50				7		5	40.4	6	8	10			
		70		-	-		-		60.4				-	-	

Ordering Example: Part Number BALTAR6 - L 30

Days to Ship: Configure Online

Price: Configure Online

Example



■Feature: Although the screw rotates, the screw head contacting the workpiece does not rotate, thus the head will not damage the workpiece.

■Feature: Screws are less likely to loosen due to intervention of a ball absorbing the workpiece vibration.